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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09065620 A**

(43) Date of publication of application: **07.03.97**

(51) Int. Cl. **H02K 13/00**
H02K 5/16
H02K 11/00
H02K 19/22

(21) Application number: **07219908**

(22) Date of filing: **29.08.95**

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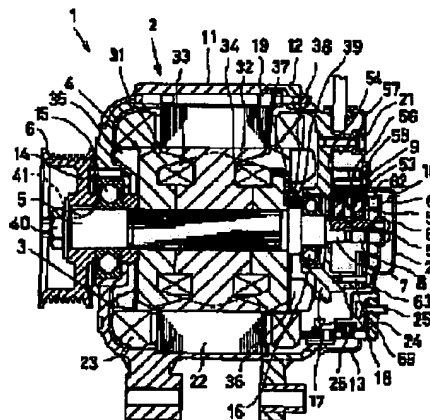
(54) **ROTARY ELECTRIC MACHINE**

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(57) Abstract:

PROBLEM TO BE SOLVED: To reduce the number of parts used in a rotary electric machine so as to reduce the manufacturing cost of the machine by making the protection of a pair of slip rings and a pair of brushes and the prevention of the scattering of the worn particles of the brushes possible while the use of any seal ring is abandoned.

SOLUTION: The sensor magnetic pole 61 and the position sensor 62 of a rotor position detecting device 10 which are required when a generator motor 1 is used as a motor for vehicle which starts an engine, a slip ring cover section 18 integrally formed with a rear housing 12, and a brush holder 53 housing a pair of brushes 51 and 52 are provided so as to surround the sliding sections between a pair of slip rings 7 and 8 and the pair of brushes 51 and 52. Therefore, the need of any seal ring for preventing the scattering of worn particles generated when the brushes 51 and 52 are slid on the slip rings 7 and 8 and the wetting of the sliding sections with outside water can be eliminated.



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